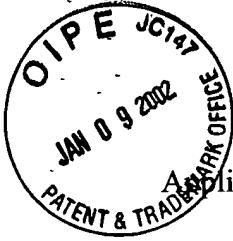


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Attorney Docket No. 13438US01



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Wakayama et al.

Serial No.: 09/456,230

Filed: December 7, 1999

For: LOW JITTER HIGH PHASE  
RESOLUTION PLL-BASED  
TIMING RECOVERY SYSTEM

Group Art Unit: 2816

Examiner: A. Tra

EXPRESS MAIL

Express Mail Label No. EL283615795US

Date: January 9, 2002

By:

Jeffrey D. Wheeler  
Reg. No. 39,066

RESPONSE TO FINAL OFFICE ACTION

BOX AMENDMENT  
Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Applicants submit this amendment in response to the Office Action dated July 13, 2001, along with a petition and fee for a three-month extension of time in which to respond.

IN THE CLAIMS:

Please delete Claims 3 and 19.

8. (Twice Amended) A phase lock loop comprising:
- a detector for comparing a phase or frequency characteristic of an input signal to a phase or frequency characteristic of a timing reference signal;
  - a timing reference signal generator, connected in feedback fashion to provide a timing reference signal to the detector;

do not enter  
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